

2210-T

ORIGINAL

Technical Data:

Voltage rating:	AC 250 V; DC 65 V; 3AC 415 V
Current rating range: main circuit	0.05...16 (0.05...16) A
Standard current rating range:	0.1 0.2 0.3 0.4 0.5 0.6 0.8 1 1.5 2 2.5 3 4 5 6 8 10 12 16 A
Current rating: auxil. circuit:	1 A resistive load
Protection class: (VDE 0631/DIN 40014)	II (to mounting drawing sheet 12/14/16 fig. 2)
Environmental protection: (DIN 40050)	operating area IP 30 terminal area IP 00
Test class: (VDE 0631, 10.4)	I > 10 000 operating cycles at 1xI _n
Mech. life:	> 20 000 operating cycles
Temperature range: (VDE 0631)	0...55°C
Comparative Tracking Index:	CTI 400
Insulation group: (VDE 0110) operating area:	C AC 250 V; test voltage AC 4000 V (double insulation to VDE 0631)
mounting area:	C AC 250 V; test voltage AC 2000 V
betw. main and auxil. circuit:	C AC 250 V; test voltage AC 2000 V
betw. auxil. circuits 11-12/23-24:	A AC 250 V; test voltage AC 1000 V
betw. main circuits:	C AC 415 V; test voltage AC 3500 V
Insulation resistance:	> 100 MΩ (DC 500 V)
Ultimate trip: (at 23°C)	see time/current characteristic curve, sheet 3 to 11
Rupture capacity: character. T2: characteristic F1, M1, M3, T1:	0.1...16 A 15xI _n } (>3 operating cycles 0.1...5 A 400 A } CO-OCO-OCO) 6...16 A 800 A } at cos φ = 0.95 or L/R = 2.5 ms
Vibration:	F1 characteristic: 3 g (57-500 Hz), ±0.23 mm (10-57 Hz) M1, M3, T1, T2 characteristic: 5 g (57-500 Hz), ±0.38 mm (10-57 Hz) test to IEC 68-2-6 test Fc (10 frequency cycles)
Shock resistance:	F1 characteristic: 25 g (11 ms) shock direction 1 to 5 10 g (11 ms) shock direction 6



Overcurrent Circuit Breaker
thermal and magnetic trip characteristic

2210-...

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sheet 2 of 16

Ers.f.gl. Nr.v. 26.6.89

M1,M3,T1,T2 characteristic:

25 g (11 ms) shock direction 1 to 5

20 g (11 ms) shock direction 6

see sheet 12/14 fig.3

test to IEC 68-2-27 test Ea

Corrosion resistance:

96 hours at 5% saltspray

test to IEC 68-2-11 test Ka

Humidity:

240 hours at 95% RH at +40°C

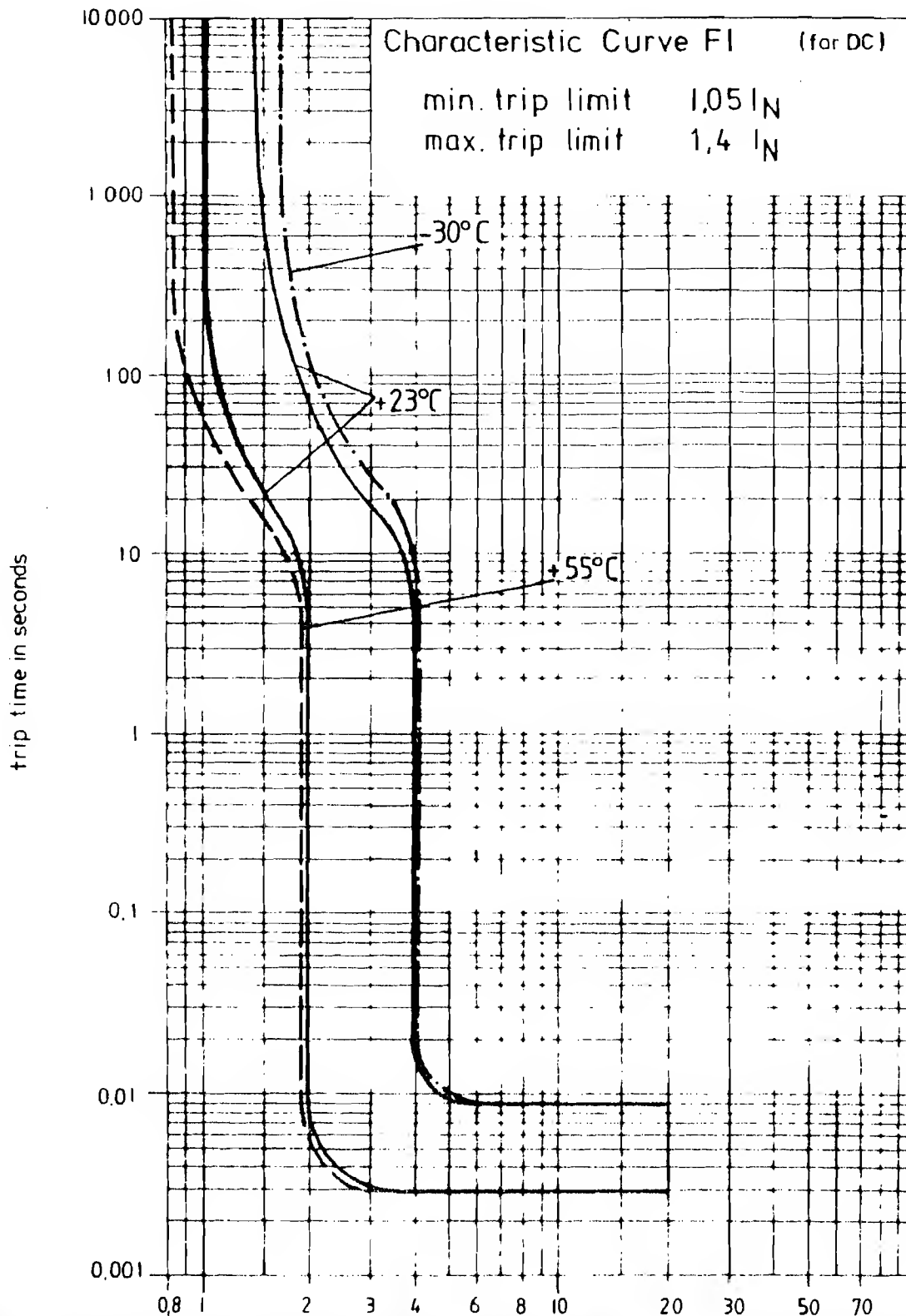
test to IEC 68-2-3 test C

Multipole combinations are suitable for use in 240/415 V mains.
(Voltage towards ground: 250 V max.)

The information furnished is believed to be accurate and reliable. However, E-T-A assumes no responsibility for its use. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved.

410.053.212

0,05 - 16 A

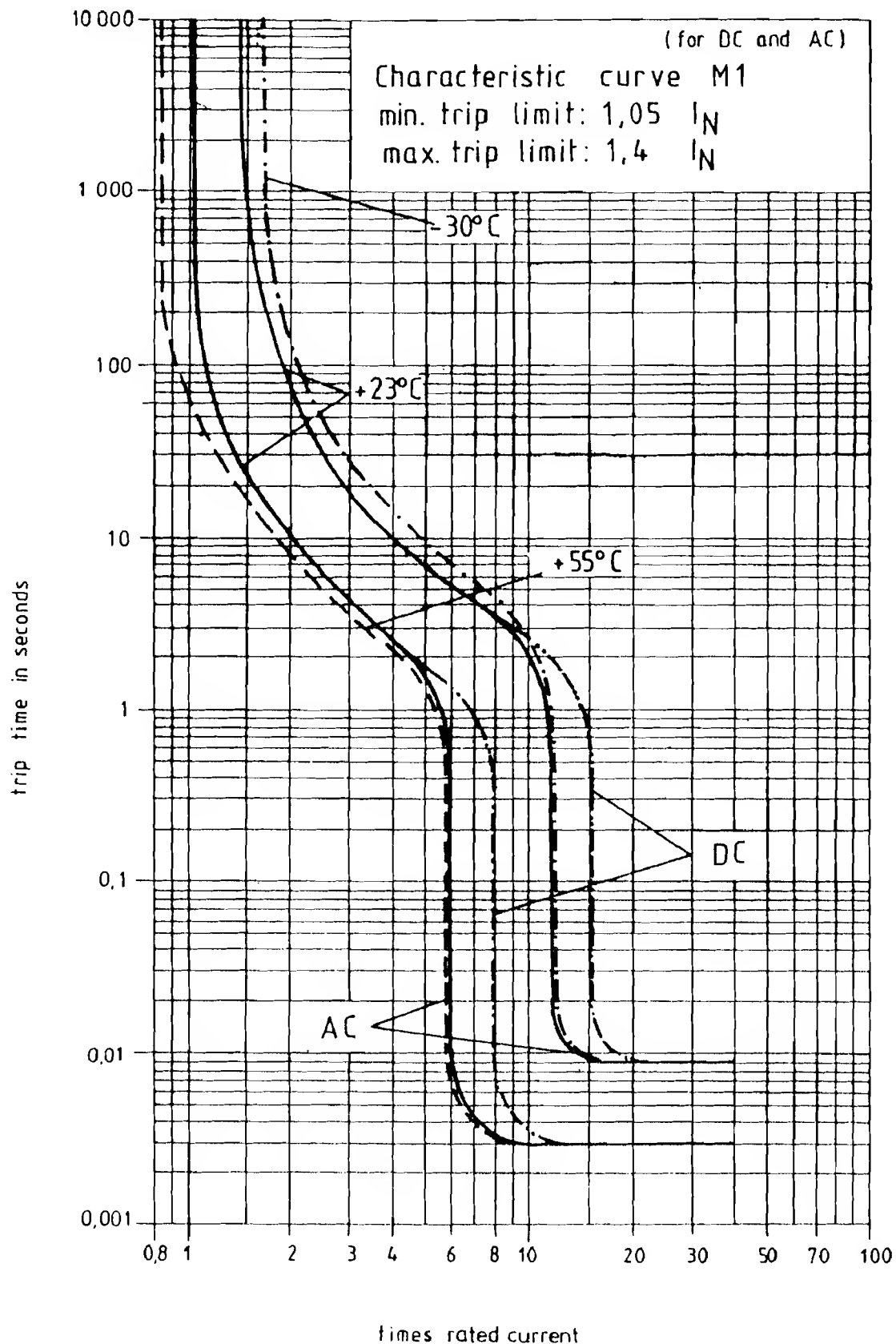


... times rated current

410.053.215 BL1

rated value : Q05- 7,5 A

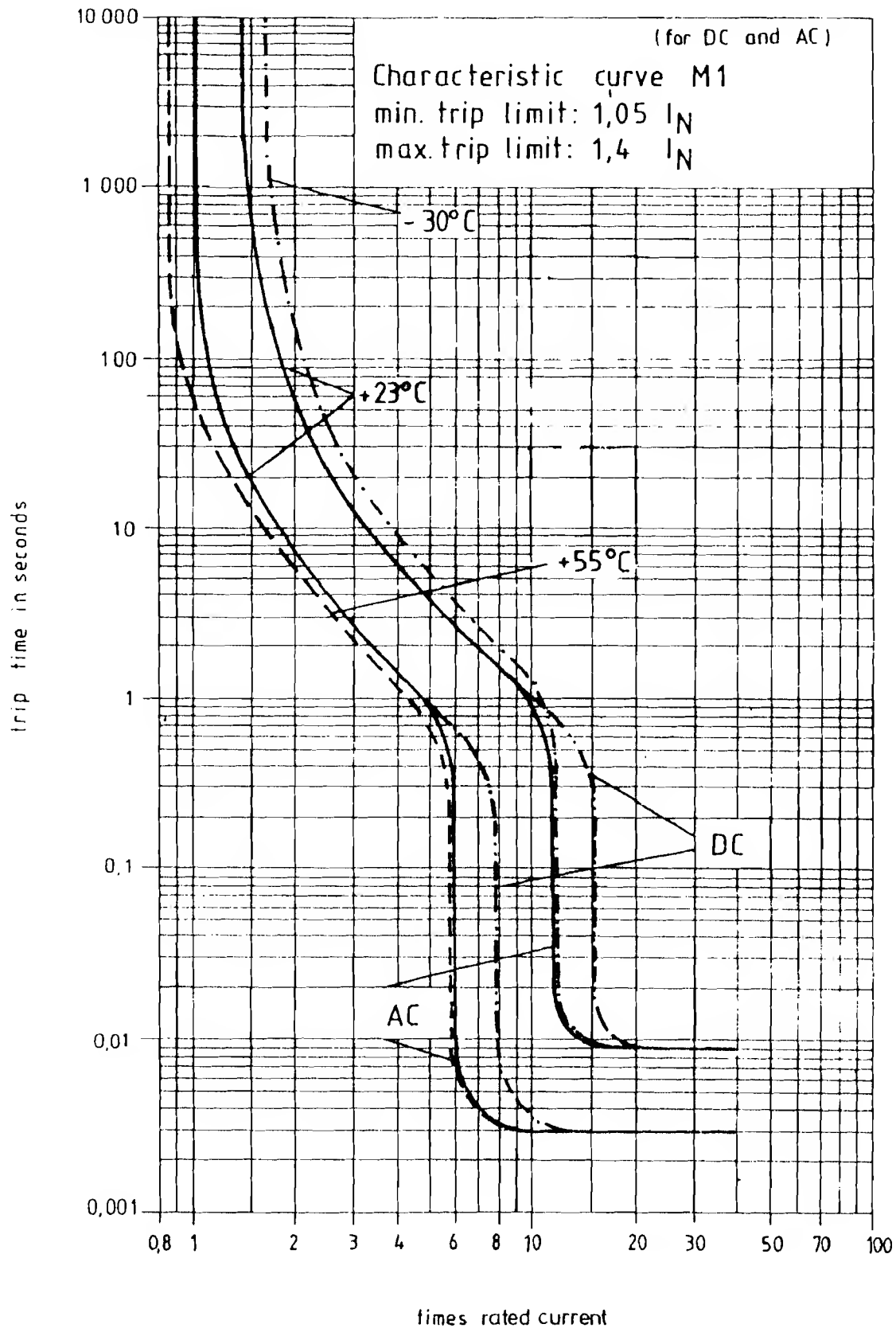
Ers.f.gl.Nr.v. 25.7.83



410.053.215 BI.2

rated value: 8 - 16 A

Ers. f. gl. Nr. v. 25.7.83



E-T-A

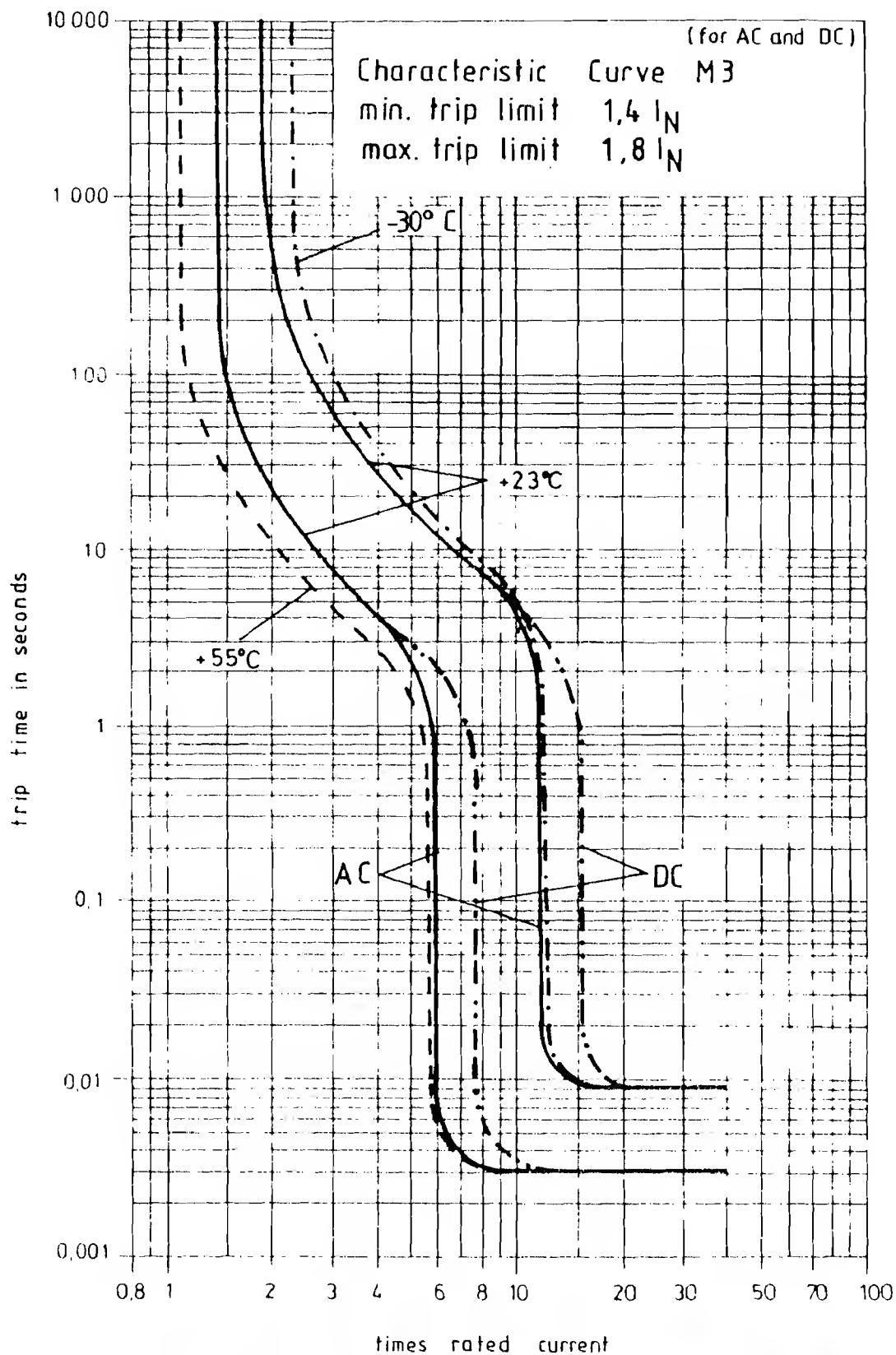
Overcurrent Circuit Breaker

thermal and magnetic trip characteristic
2210 - ...

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sheet 6 of 16

410.053.238 Bl 1

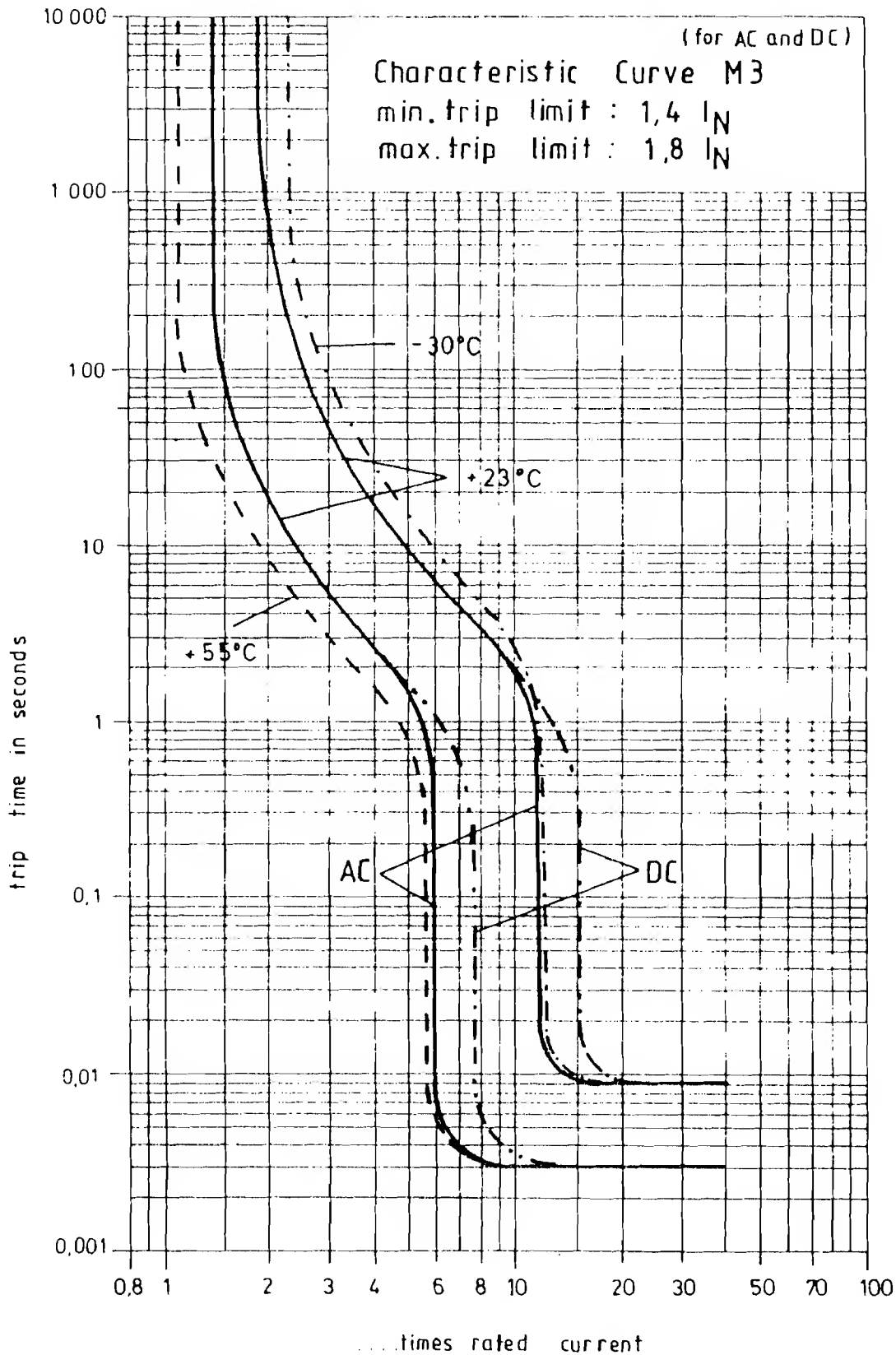
rated value: 0,05 - 55A



75 39

410 053 238 Bl.2

rated value 6 - 16 A

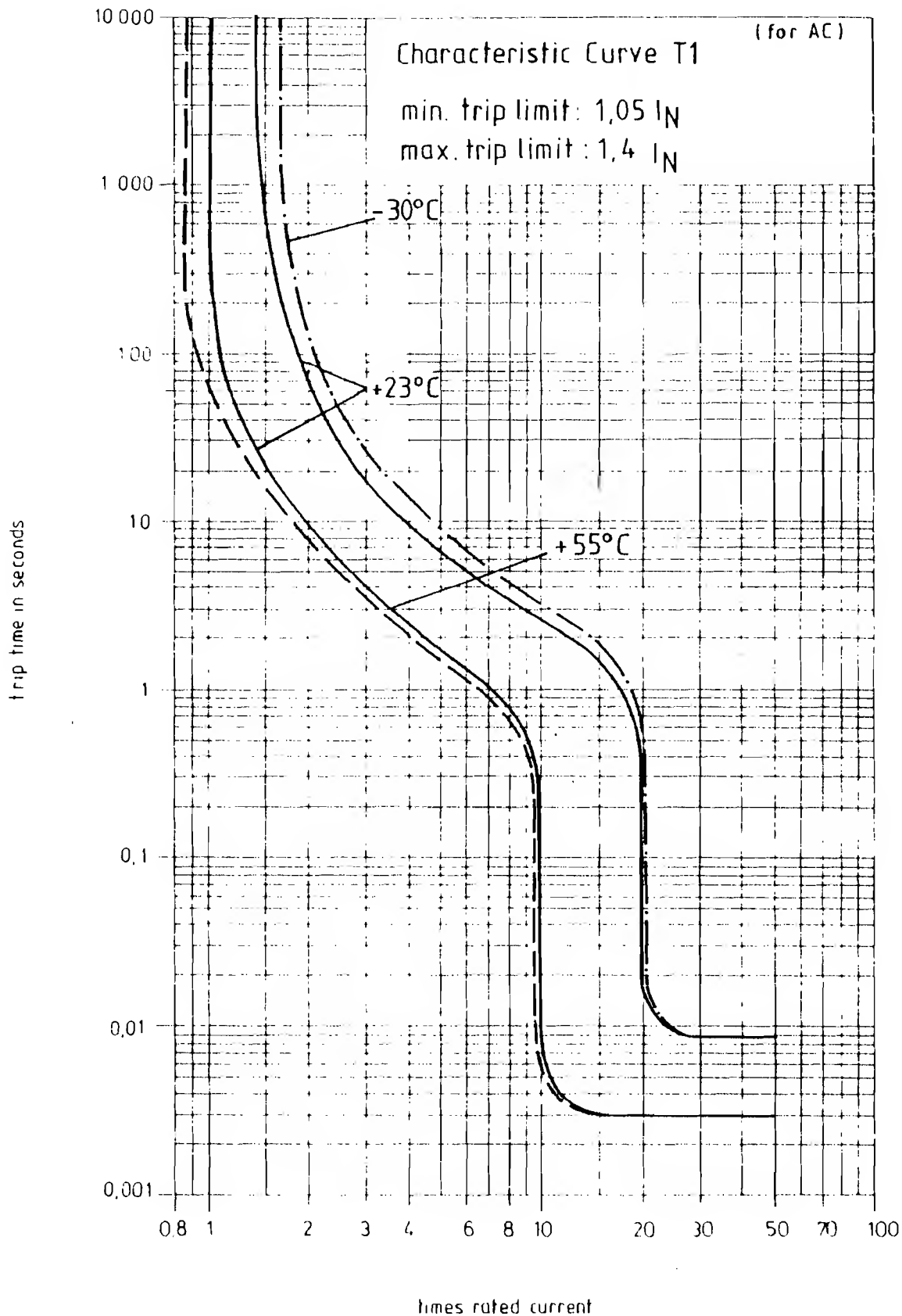


075.394

f	AM11827	15.4.87	Jö
p	AM12614	26.6.89	h

410.053.217 Bl.1

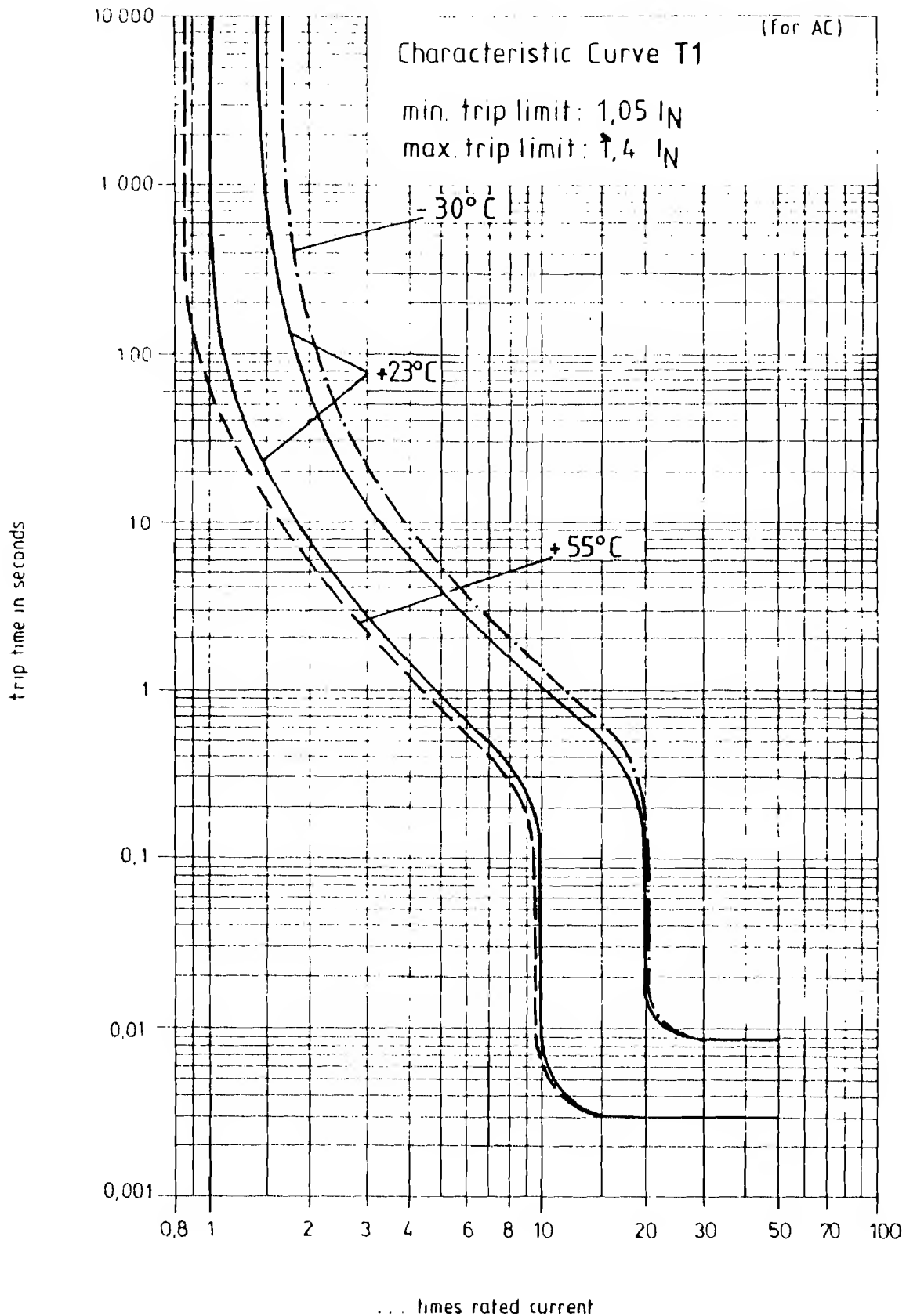
rated value : 0,10-7,5A



d	AM11417	24 3 86 I_N	g	AM12614	26 6 89 I_N
e	AM11656	6 11 86 I_N	h	Bl 12,14 16	19,4 90 I_N

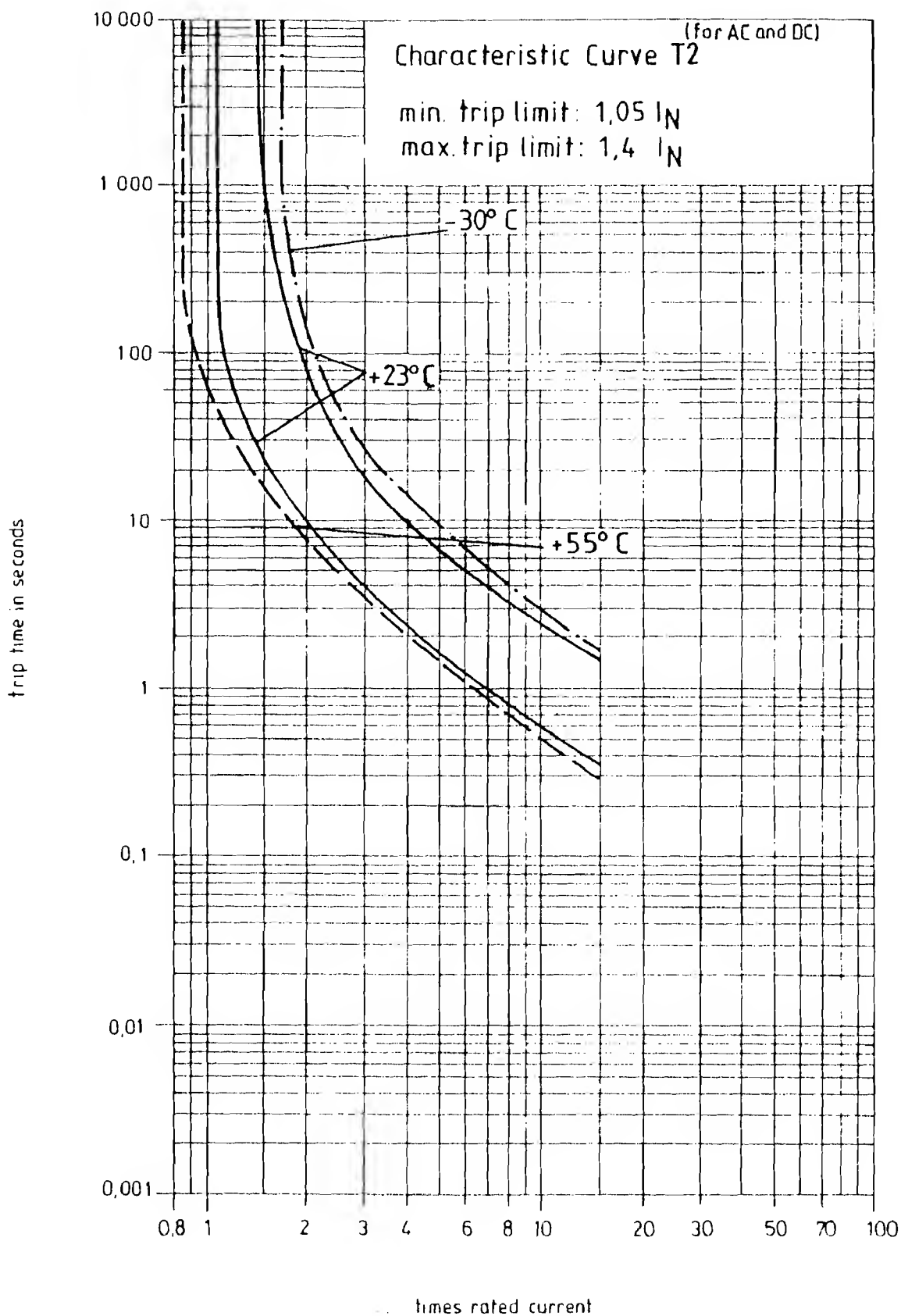
410 053 217 B12

rated value 8-16 A



410.051.278 Bl.1

rated value : 0,10 - 7,5 A

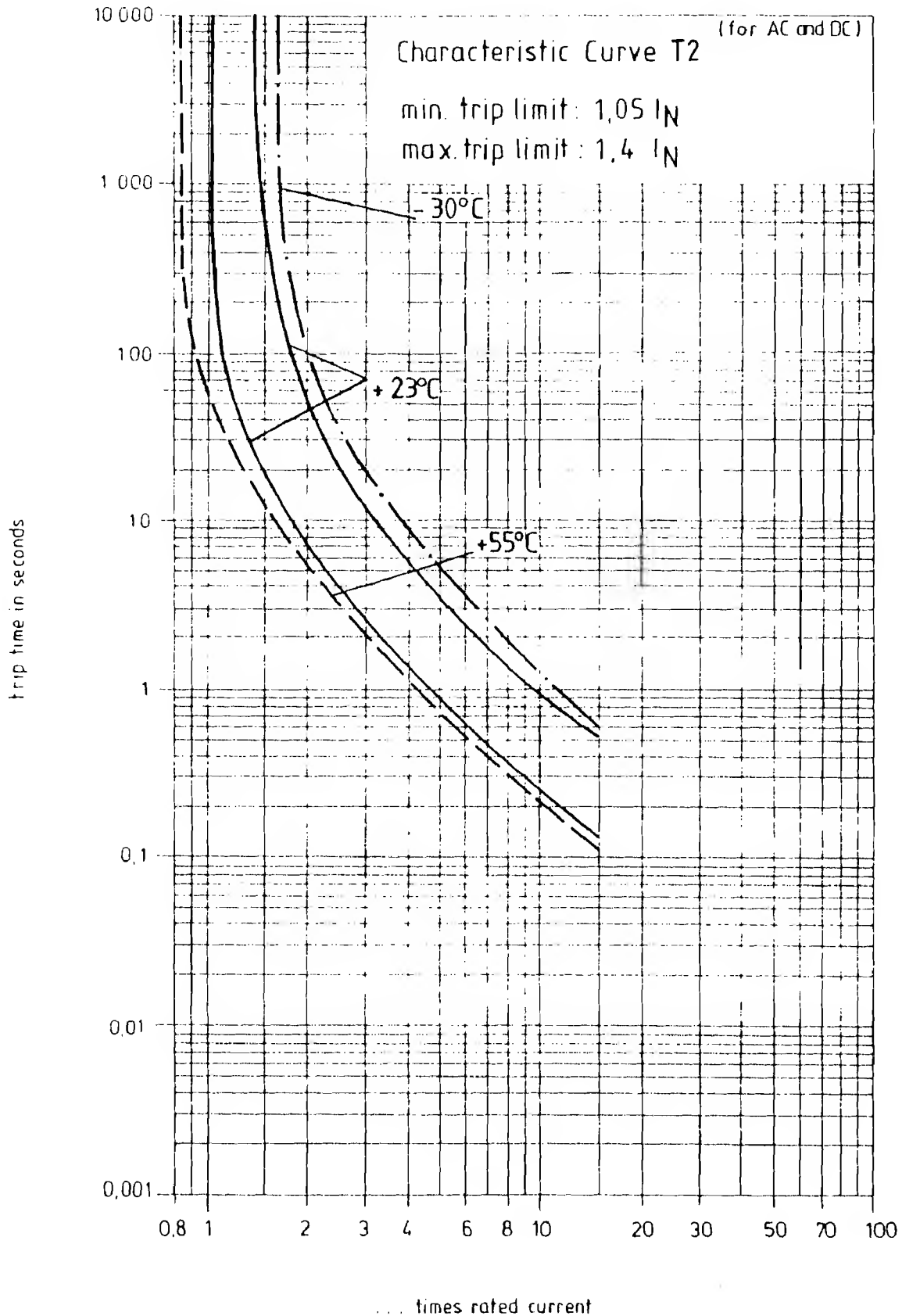


75 394

d	AM11417	24 3 86	g	AM12614	26 6 89
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410051278 Bl. 2

rated value 8-16 A

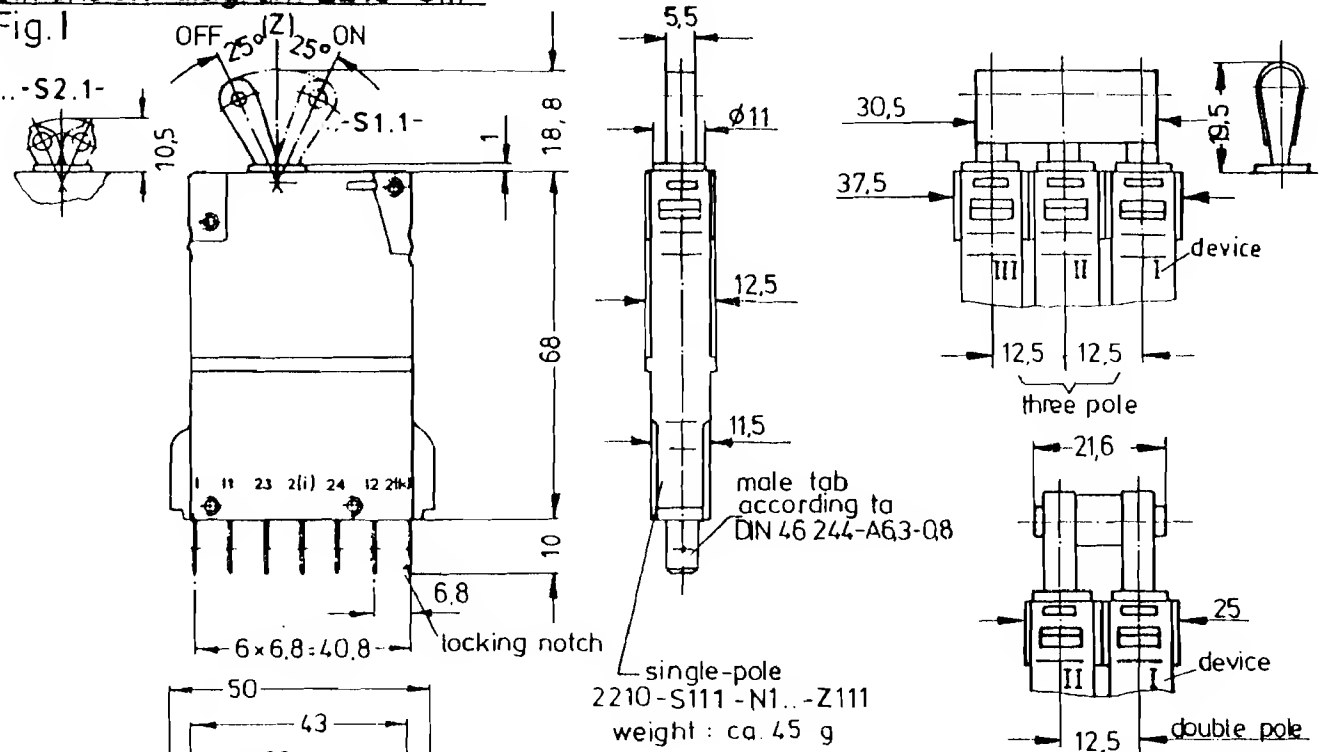


075 394

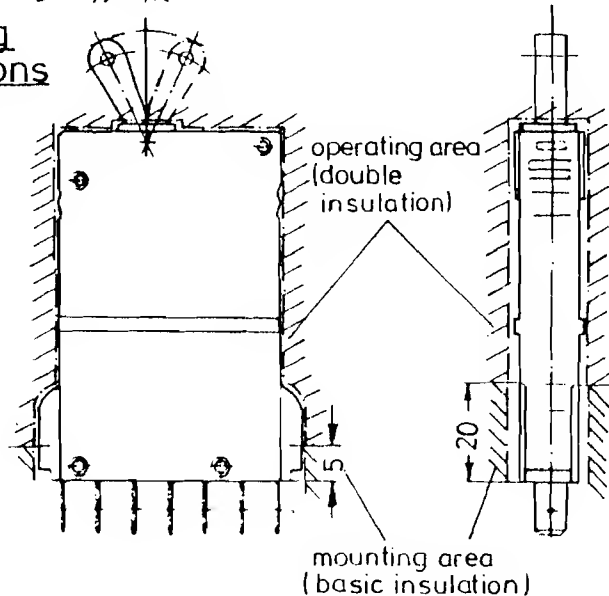
d	AM11417	24.386 I_N	g	AM12614	26.689 I_N
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Dimension diagram 2210-S...-

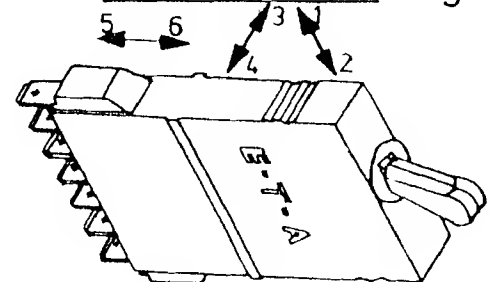
Fig. 1



Mounting Dimensions Fig. 2



Shock direction Fig. 3



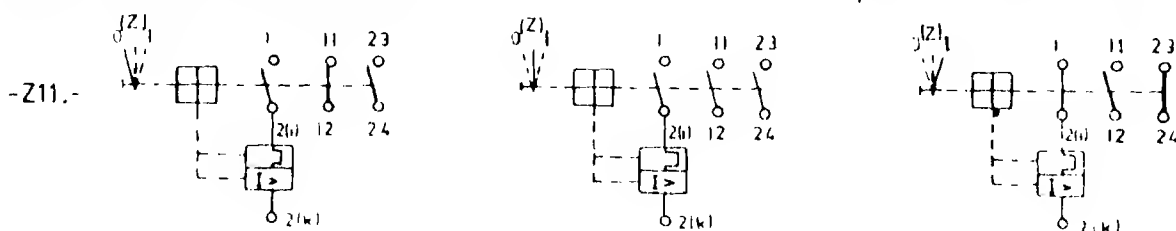
Accessory

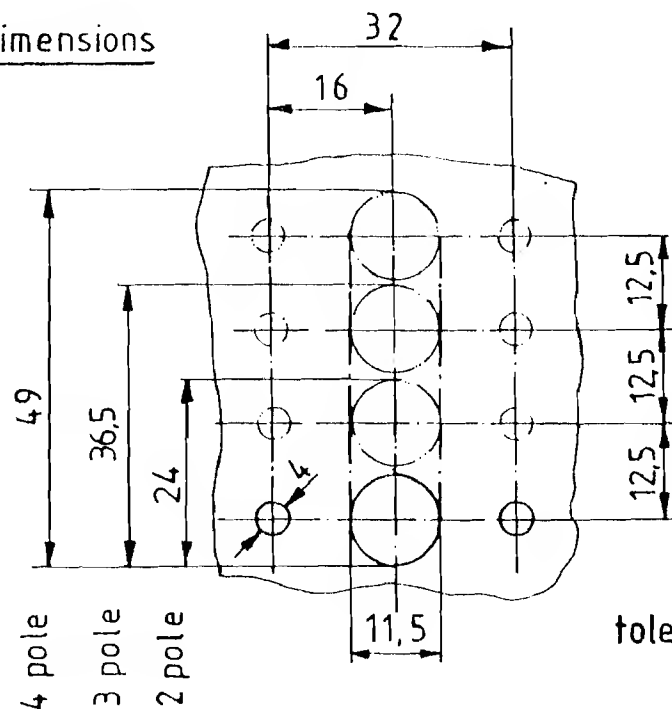
- terminal blocks: 23-P10-Si
63-P10-Si
17-P10-Si
- draw-off bow: Y 301 398 02
- spring: Y 302 974 01 (for type 23, 63)
Y 302 974 11 (for type 17)

Splashcover

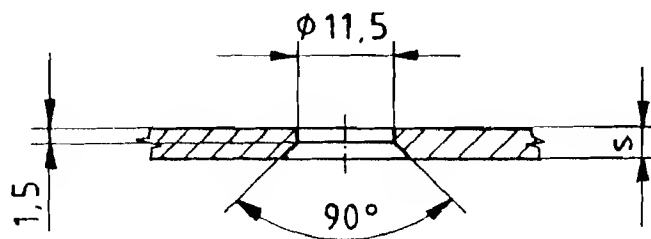
- single pole X 211 117 02
- 2 or 3 pole X 211 118 01
- 4 pole X 211 119 01

Internal wiring diagrams



Mounting dimensions2210-S...

tolerances : DIN7168-m

Recessed as shown if the front panel is $> 1,5 \text{ mm}$

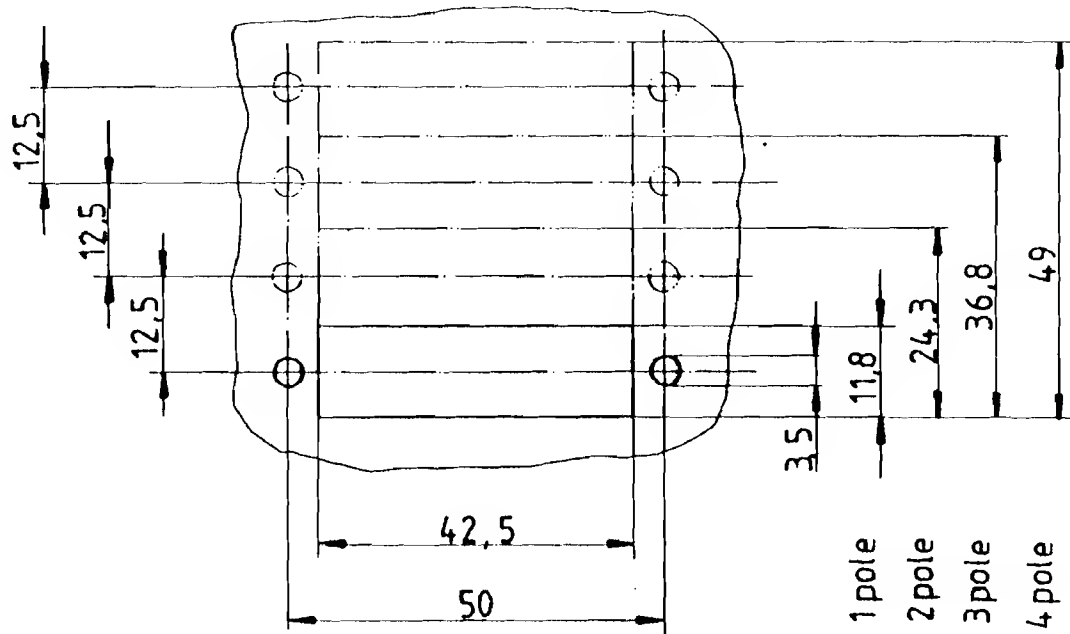
Mounting dimensions for devices with splash cover (accessory for 2210-S...-)

see dimensional drawing 281.023.310 (single pole)

281.023.311 (2 or 3 pole)

281.023.309 (4 pole)

Mounting dimensions 2210-F...



tolerances: DIN 7168 - m

E-T-A®

ETA Elektrotechnische Apparate GmbH
D-8503 Altdorf bei Nuernberg (BRD)
Tel.: (09187) 10-1 Telex 06-24461

Overcurrent Circuit Breaker thermal and magnetic trip characteristic 2210-...

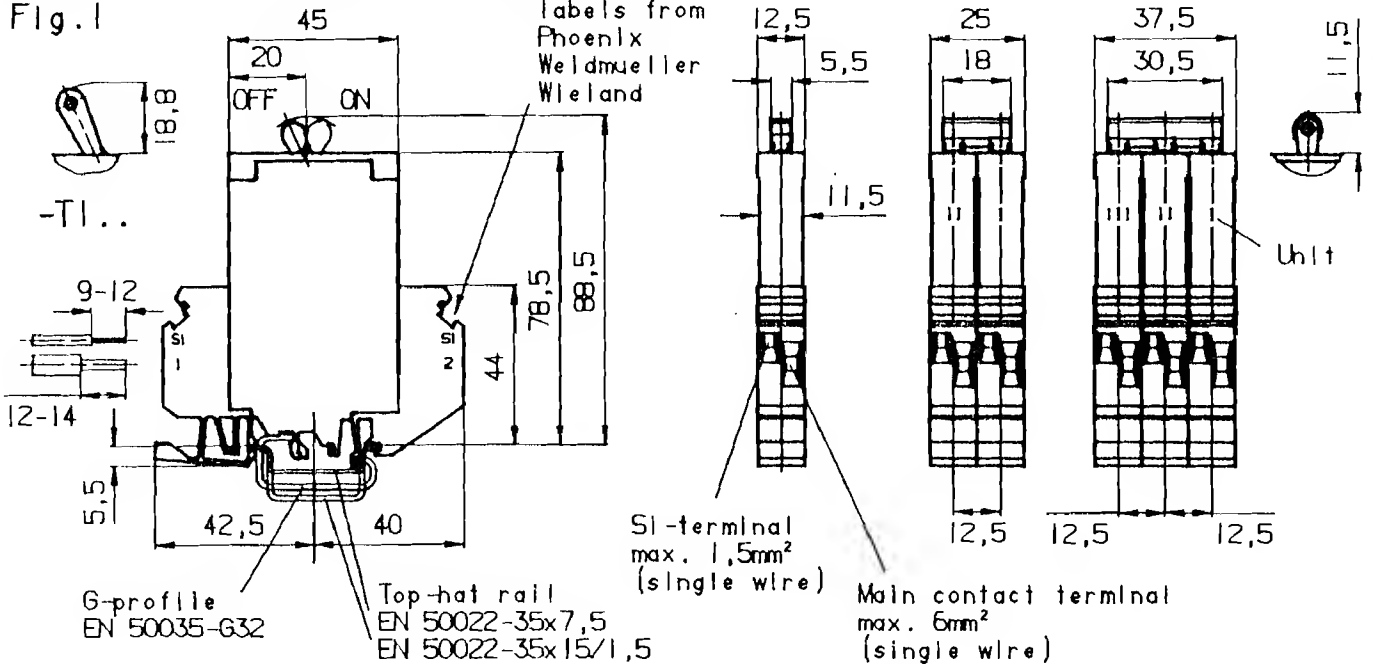
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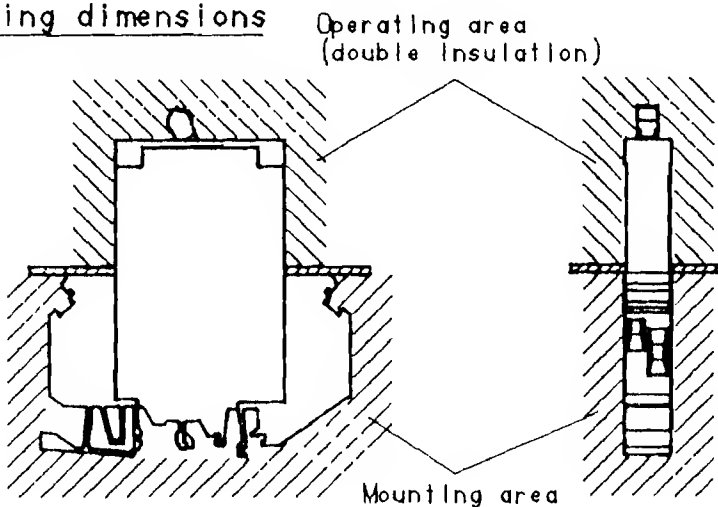
Dimension diagram 2210-T2..

Fig.1



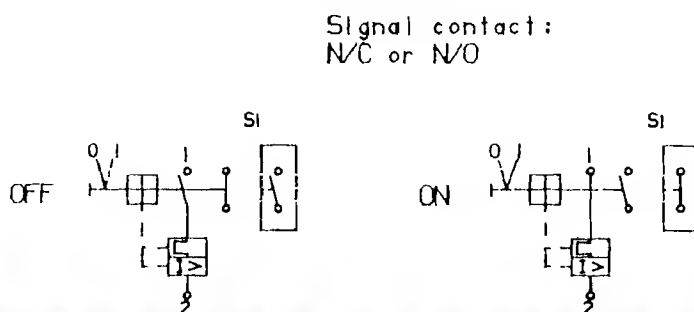
Mounting dimensions

Fig.2



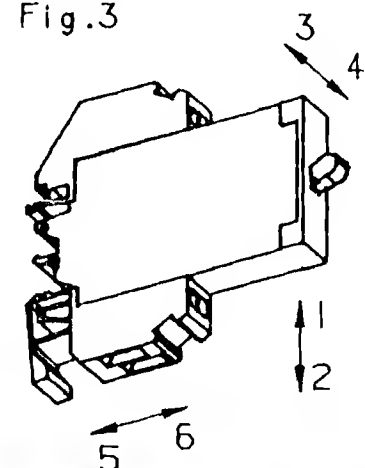
Mass (single pole): approx. 60g

Internal wiring diagram



Shock direction

Fig.3



Name: SI

Ersatz fuer: -

Reg.-Nr.: -

Ae-Stand: - h



2210-...
Selectivity Rating

Appendix to
Data Sheet
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ETA Current rating (A)	Back-up fuse for characteristic curve F1	Selective up to ... A	Back-up fuse for characteristic curve M1	Selective up to ... A
0.1	MO.2	1.5	MO.63	4.7
0.2	MO.4	3.0	M1	7.5
0.3	MO.63	4.7	M1.6	12
0.4	MO.8	6.0	NH2	10
0.5	M1	7.5	NH2	10
0.6	M1.25	9.4	NH4	25
0.8	M1.6	12	NH4	25
1.0	NH2	15	NH4	25
1.5	NH4	35	NH6	50
2.0	NH4	35	NH10	100
2.5	NH6	60	NH10	100
3.0	NH6	60	NH10	100
4.0	NH10	110	NH16	200
5.0	NH10	110	NH16	200
6.0	NH10	110	NH20	250
8.0	NH16	200	NH25	380
10	NH16	200	NH25	380
12	NH20	300	NH35	580
16	NH25	350	NH35	580



2210-...
Max. back-up fuse to ensure
short-circuit protection

Appendix to
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ETA Current rating (A)	Back-up fuse (DIN57636) rating (A)	Selective up to ... A
0.1	} optional	
0.2		
0.3		
0.4		
0.5		
0.6		
0.8	4	25
1.0	4	25
1.5	6	50
2.0	6	50
2.5	6	50
3.0	10	100
4.0	10	100
5.0	16	200
6.0	20	250
8.0	25	380
10.0	35	580
12.0	35	580
16.0	35	580

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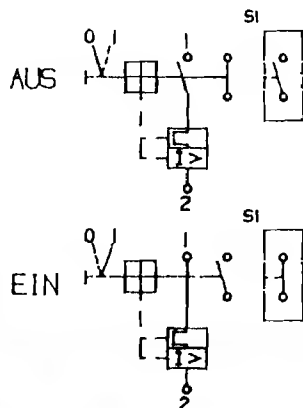
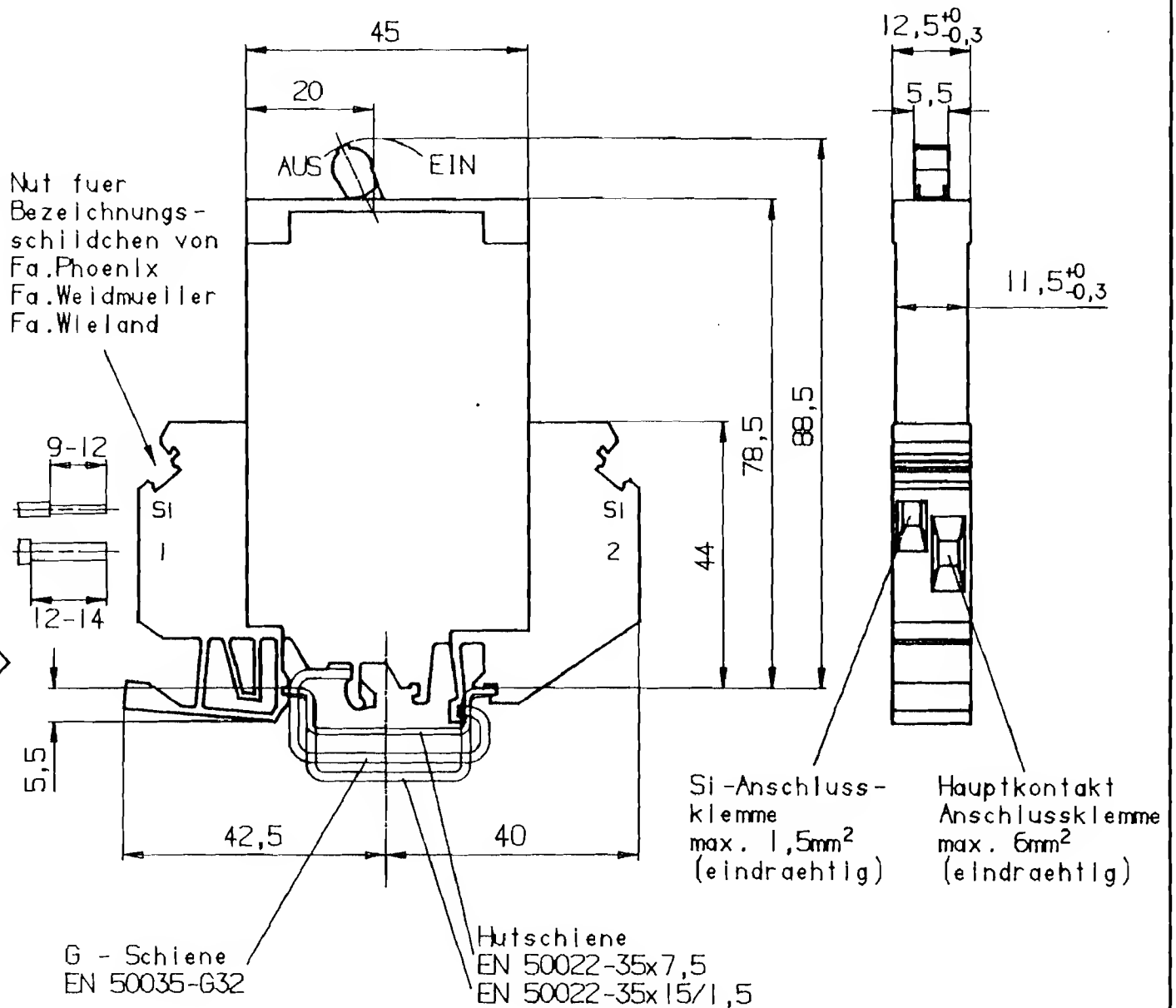
E-T-A Magnetic

2210-T...-...

Massbild

410.025.207

Blatt 1 von 1



Signalkontakt:
Oeffner oder
Schliesser

M | : |

Name: St

Ersatz fuer : gl.Nr.v.01.02.90

Reg.-Nr: -

Ae-Stand: -